

# Product Datasheet

## STAT3 [p Tyr705] Antibody

### NBP2-19129

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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**NBP2-19129****STAT3 [p Tyr705] Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

<b>Product Description</b>	
<b>Description</b>	<p>This antibody is an affinity-purified antibody and is directed against the phosphorylated form of human STAT3 protein at the Y705. This antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross adsorbed against the non-phosphorylated form of the immunizing peptide</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
<b>Host</b>	Rabbit
<b>Gene ID</b>	6774
<b>Gene Symbol</b>	STAT3
<b>Species</b>	Human
<b>Reactivity Notes</b>	A BLAST analysis was used to suggest cross reactivity with Stat3 antibodies from human, mouse, rat, and pig based on 100% sequence homology with the immunogen. Reactivity against homologues from other sources is not known.
<b>Specificity/Sensitivity</b>	Anti-STAT3 antibody is an affinity-purified antibody and is directed against the phosphorylated form of human STAT3 protein at the Y705. The resultant affinity purified antibody was then cross adsorbed against the non-phosphorylated form of the immunizing peptide. Anti-Stat3 antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated Stat3 protein is minimal by ELISA and western blot. A BLAST analysis was used to suggest cross reactivity with Stat3 antibodies from human, mouse, rat, and pig based on 100% sequence homology with the immunogen. Reactivity against homologues from other sources is not known.
<b>Immunogen</b>	This affinity purified STAT3 [p Tyr705] Antibody was prepared by repeated immunizations with a phosphorylated synthetic peptide corresponding to the region of amino acids surrounding tyrosine 705 of human STAT3. (Uniprot: P40763)

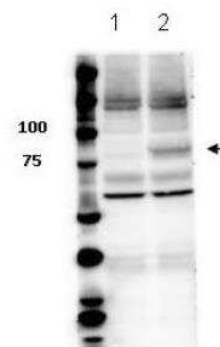
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin



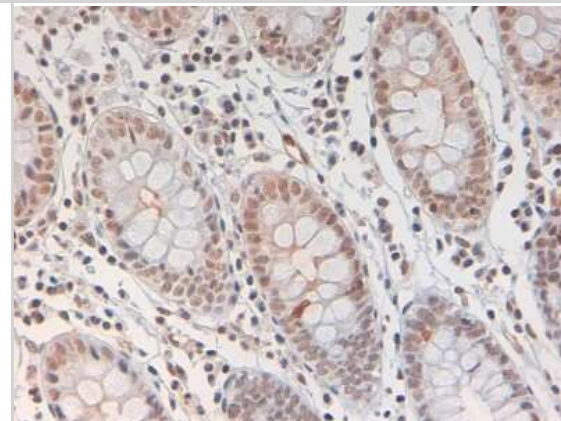
<b>Recommended Dilutions</b>	Western Blot 1 ug/ml, ELISA 1:10000-1:30000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:250
<b>Application Notes</b>	This product has been tested for use in ELISA, IHC, and Western Blot. Expect a band approximately 88.1 kDa in size corresponding to phosphorylated STAT3 protein by western blotting in the appropriate stimulated tissue or cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.

## Images

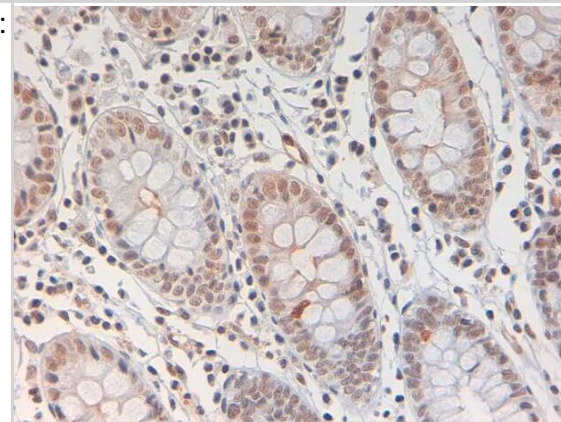
Western Blot: STAT3 [p Tyr705] Antibody [NBP2-19129] - Lane 1: Jurkat lysate. Lane 2: Jurkat lysate IFN- $\alpha$  treatment. Load: 35 ug per lane. Primary antibody: STAT3 pY705 antibody at 1:1000 for overnight at 4 degrees C. Secondary antibody: IRDye800 (R) rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4 degrees C. Predicted/Observed size: 88 kDa, ~90kDa for STAT3py705. Other band(s): STAT 3 pY705 splice variants and isoforms.



Immunohistochemistry-Paraffin: STAT3 [p Tyr705] Antibody [NBP2-19129] - Rabbit anti STAT3 pY705 Antibody at 40X in colon tissue at pH 9. Tissue: Human Colon.



Immunohistochemistry of Rabbit anti STAT3 [p Tyr705] Antibody. Tissue: Human Colon at 40X in colon tissue at pH 9. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: STAT3 pY705 antibody at 10 ug/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: STAT3 phospho Y705 is nuclear and cytoplasmic. Staining: STAT3 (pTyr705) as precipitated red signal with hematoxylin purple nuclear counterstain.





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### **Products Related to NBP2-19129**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006774-P01-10ug	Recombinant Human STAT3 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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